



# **OPW 52470 (CSO) Forest Lawn Creek Inflow Removal and Outfall Storm Sewer Project**

## **Contractor Outreach Workshops**

### **December 2021**



# Project Extents



# Project Scope

- Sanitary Sewer
  - Downstream Connection: 29<sup>th</sup> & Weber Street
  - Trenchless installations for 30<sup>th</sup> Street crossings at Weber Street (24") and Hanover Street (12")
- Storm Sewer
  - Downstream Connection: Minne Lusa Outfall
    - Modifications of Existing Outfall
    - UPRR Spur Track Crossing
  - Tunnelling Installation Along Weber Street East of 29<sup>th</sup> Street (96")
  - 39<sup>th</sup> Street Outfall
- Bid Alternate
  - 40<sup>th</sup> Street Culvert Replacement

# Project Scope

- Full Width Street Replacement Everywhere Sewer/Storm Work Except:
  - Partial Width on 30<sup>th</sup> Street and Shopping Center
  - Mill and Overlay Along Hanover Corridor West of 30<sup>th</sup> Street
- Wyoming Street Full Width Street Replacement (No Sewer/Storm Work)
- Traffic Signal Removal/ Replacement
  - 30<sup>th</sup> & Forest Lawn Ave.
- Landscape Restoration

# Project Schedule

- Plan Early Advertising: January 2022
- Addendum 1 (Advertisement): February 2022
- Bid Opening: March 2022
- Expected Notice to Proceed: July 2022
- Substantial Completion: April 2024
- Final Completion: July 2024
  
- Liquidated Damages
  - \$3,500/day (For Substantial Completion)
  - \$1,750/day (For Final Completion)
  - \$3,500/day (Milestone 1)

# Project Schedule

- Milestone 1: Install 10-ft by 7-ft RCB Crossing UPRR tracks Near Outfall
  - Work to be Completed in the Coordinated Time Frame with Metropolitan Utilities District (MUD) and Union Pacific Railroad (UPRR) Between October 16 and April 30.
  - Liquidated Damages will Accrue after the 20<sup>th</sup> Calendar Day Beginning the First Full Working Day Proceeding when UPRR Removes Track and Turns Over the Area to the Contractor to When the Site is Turned Back over to UPRR for Track Replacements.
  - Work Shall be Performed Continuously 24 Hours per Day, 7 Days per Week Until Complete.

# Bidding Details

- **Base Bid**
  - Schedule A – Sewer Separation and Associated Street Pavement Replacement
  - Schedule B – Wyoming Street Pavement Replacement
- **Bid Alternate**
  - Schedule C – 40<sup>th</sup> Street Culvert Replacement
- **Unit Price Bid**
- **Allowances**
  - Environmental Allowance
  - SWPPP Allowance
- **2020 City of Omaha Standard Specifications and Plates**

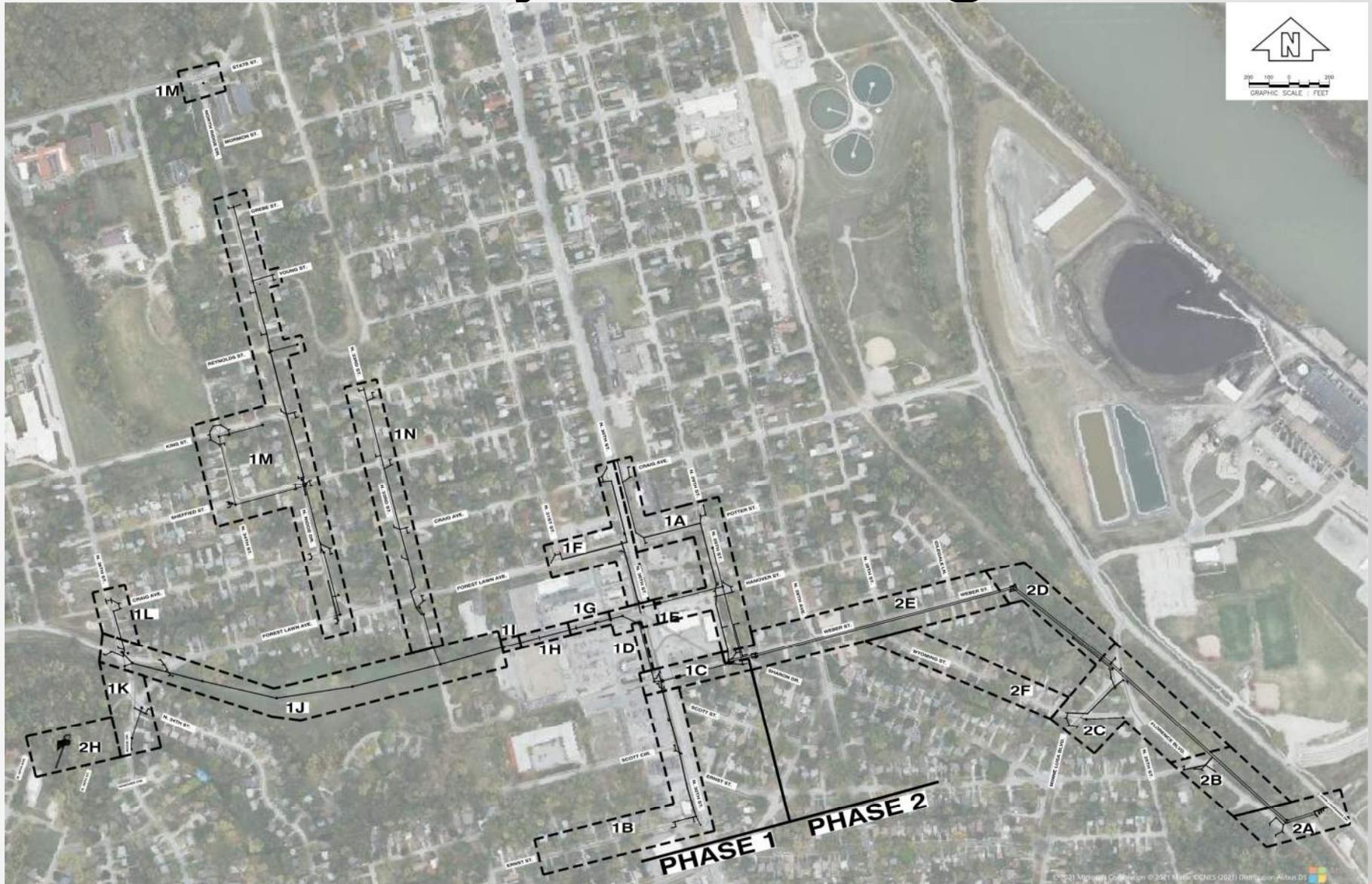
# Small & Emerging Business (SEB) Program

- Developed 2009
- Omaha Municipal Code – Chapter 10
- Arranged by Tiers – Geographic Location
- SEB Requirement of 2.5% of Base Bid
- Program Information:
  - Heather Tippey Pierce, Public Works
  - [htpierce@cityofomaha.org](mailto:htpierce@cityofomaha.org)
  - 402-444-3275
  - <https://humanrights.cityofomaha.org/small-and-emerging-small-business-seb>

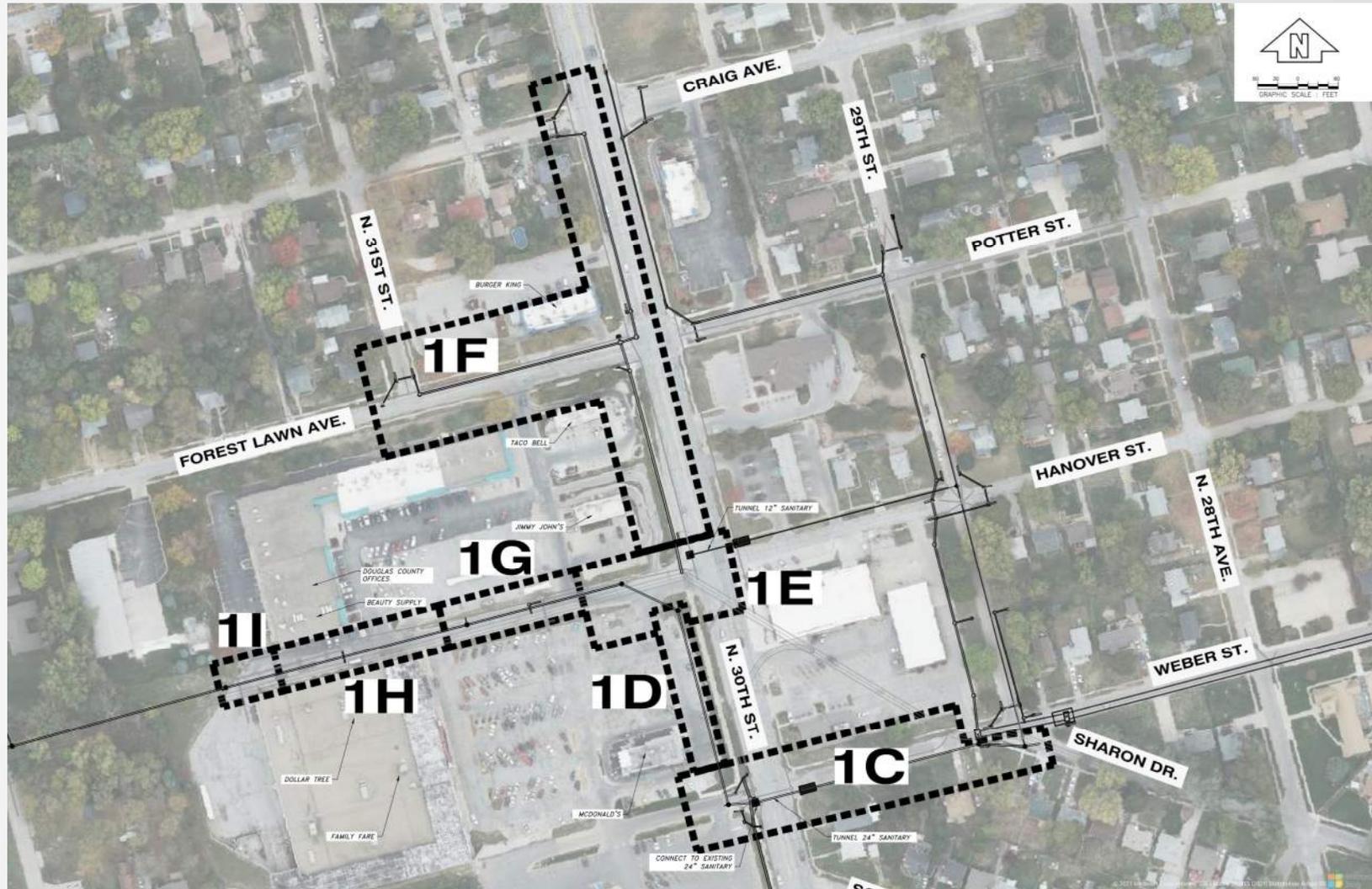
# Economic Equity and Inclusion Plan (EEIP)

- Mission
  - To decrease unemployment, poverty; and increase access and opportunity in economically distressed areas of the City.
- City departments are to include EEIP in construction contracts in excess of \$500,000.
- Plan development procedures and template located in the Instructions to Bidders.
- Program Information:
  - Jared Anderson, HR&R
  - Jared.anderson@cityofomaha.org
  - 402-444-5053
  - <https://humanrights.cityofomaha.org/economic-inclusion>

# Project Phasing



# Project Phasing – Phase 1C – 1I



# Project Phasing – Phase 1E – 1I



# Project Phasing – Phase 1C – 1I

- No Work on Subsequent Phase Until Prior Phase is Temporarily Restored and Open to Traffic
- Phase 1C
  - Tunnel 24” Sanitary Under 30<sup>th</sup> Street
  - Connect to Existing 24” Sanitary After 30” Storm Connection (Phase 1B)
- Phase 1D
  - Maintain McDonald’s Drive-Thru Access
- Phase 1E – 1I:
  - Only one Parking Lot Entrance Closed at a Time
  - Coordinate Work with Property Owner for Scheduled Deliveries
- Phase 1E
  - Tunnel 12” Sanitary Under 30<sup>th</sup> Street
- Phase 1I
  - Coordinate Work with Property Owner for Scheduled Deliveries

# Access to Properties

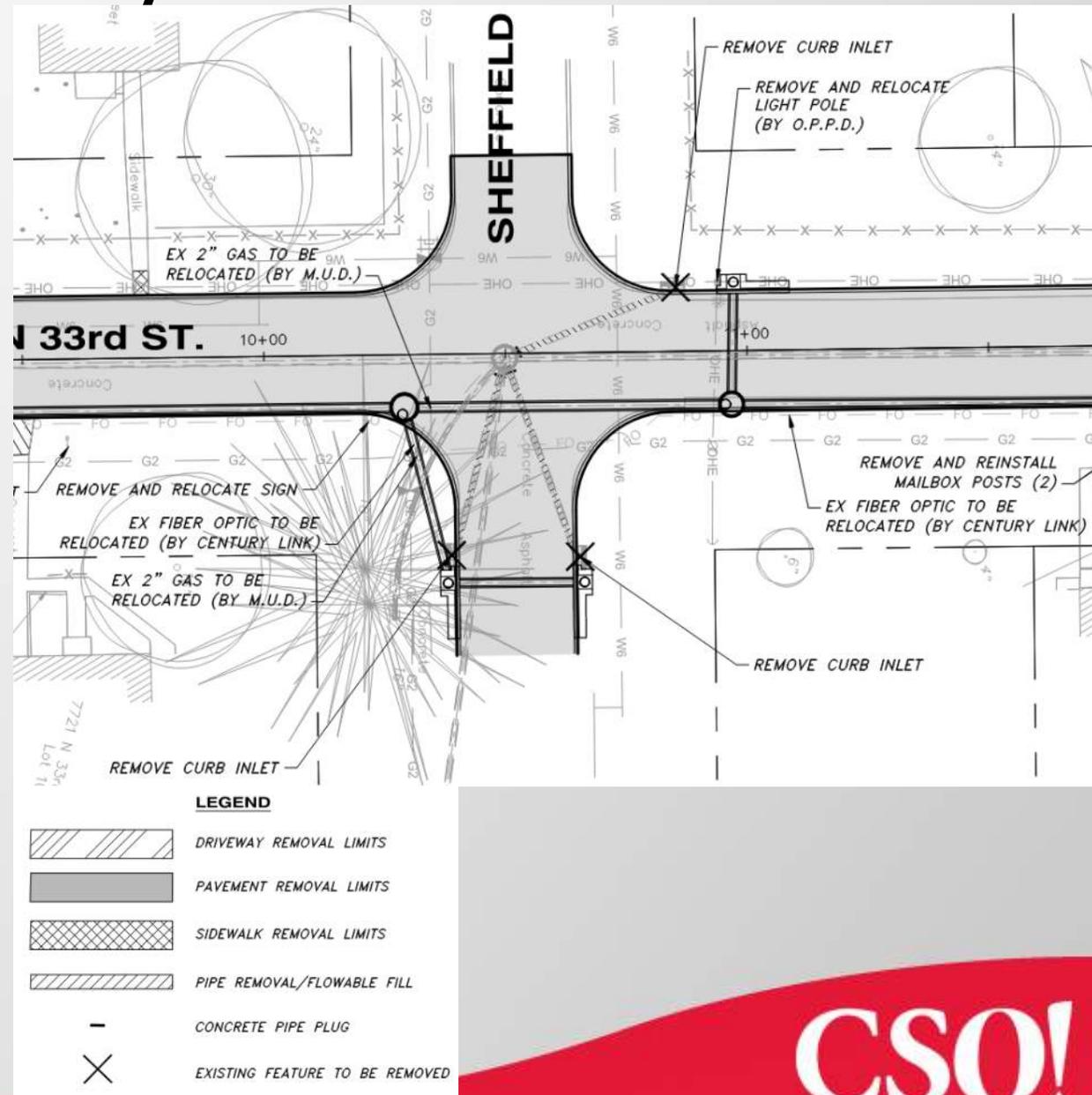
- Maintaining Access to Properties is Critical
  - Disturbances Should be Minimalized Where Possible
  - Temporary Access To Be Provided Where Necessary
  - Communicate with Affected Property Owners and Notify Prior to any Disturbances
- All Phases: Removals, Sewer Work, Paving, Restoration
  - Special Conditions Apply to Work in the Commercial Corridor West of 30<sup>th</sup> Street From Weber to Hanover Streets (Phases 1C – 1I)
- Emergency Access
- Garbage / Mail Delivery

# Removals Scope

- Remove Inlets: 140 EA
- Remove pavement: 38,500 SY
- Remove Driveway 3,000 SY
- Remove Sidewalk 38,000 SF
- Construct Flowable Fill – 50–75 PSI: 400 CY

# Pipe Removal/Abandonment

- Full removal and pipe plugs (when applicable) required when abandonment is included within in the pavement remove/restoration extents.
- All other pipes to be abandoned in-place using flowable fill.



# Storm Scope

- Schedule A : Forest Lawn Sewer Separation

- Storm Sewer Pipe

- 10' x 7' RCB – 1950 LF
- 96" RCP, D(0.01) = 3,000 – 160 LF
- 54" RCP, D(0.01) = 2,000 – 40 LF
- 54" RCP, D(0.01) = 1,350 – 300 LF
- 36" RCP, D(0.01) = 2,000 – 165 LF
- 36" RCP, D(0.01) = 1,350 – 65 LF
- 30" RCP, Class IV – 50 LF
- 30" RCP, Class III – 2750 LF
- 30" DIP – 85 LF
- 24" RCP, Class III – 1900 LF
- 18" RCP, Class III – 1400 LF
- 16" DIP – 55 LF
- 15" RCP, Class III – 3900 LF
- 12" RCP, Class III – 50 LF
- 12" DIP – 70 LF

- Storm Sewer Structures

- Cast in Place Junction Boxes – 5 EA
- 96" I.D. Storm Manhole – 30 VF
- 84" I.D. Storm Manhole – 110 VF
- 72" I.D. Storm Manhole – 55 VF
- 60" I.D. Storm Manhole – 205 VF
- 54" I.D. Storm Manhole – 95 VF
- Storm Inlets – 140 EA

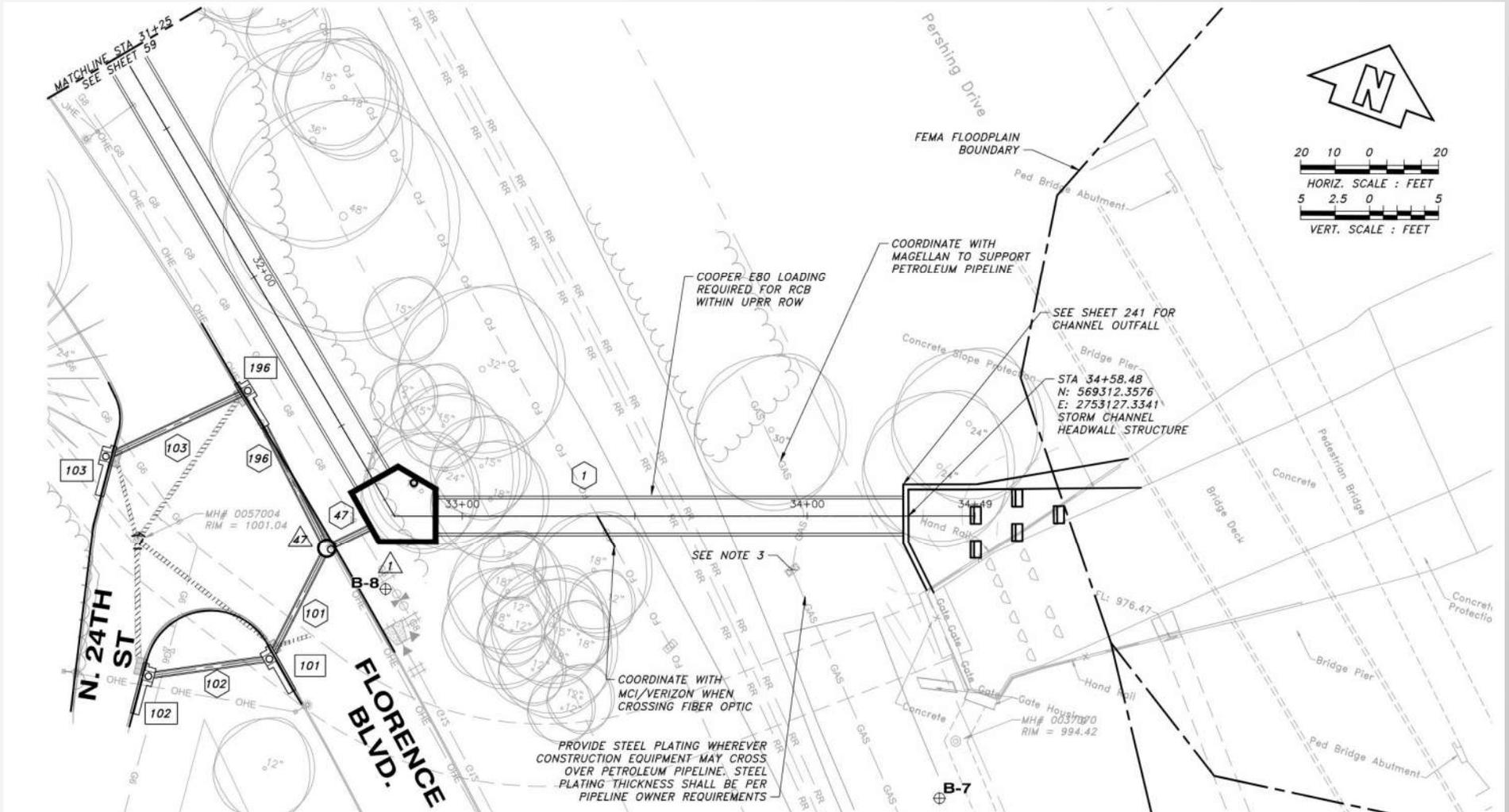
- Miscellaneous Storm

- Minne Lusa Outfall Structure Modifications – 1 LS
- Tunnel 96" Storm Sewer – 1305 LF
- Type C Rip-Rap – 175 TON

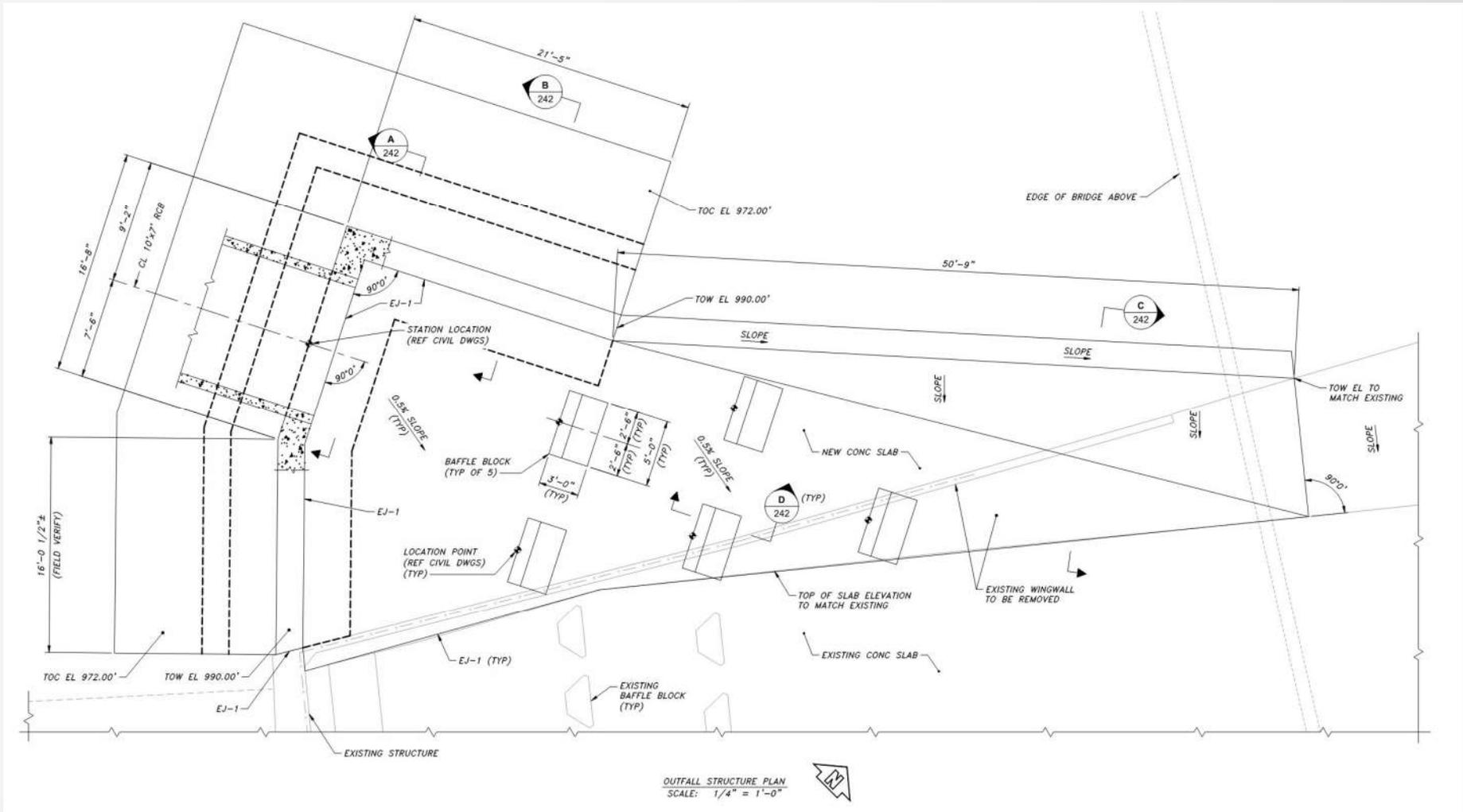
# Minne Lusa Outfall Modifications



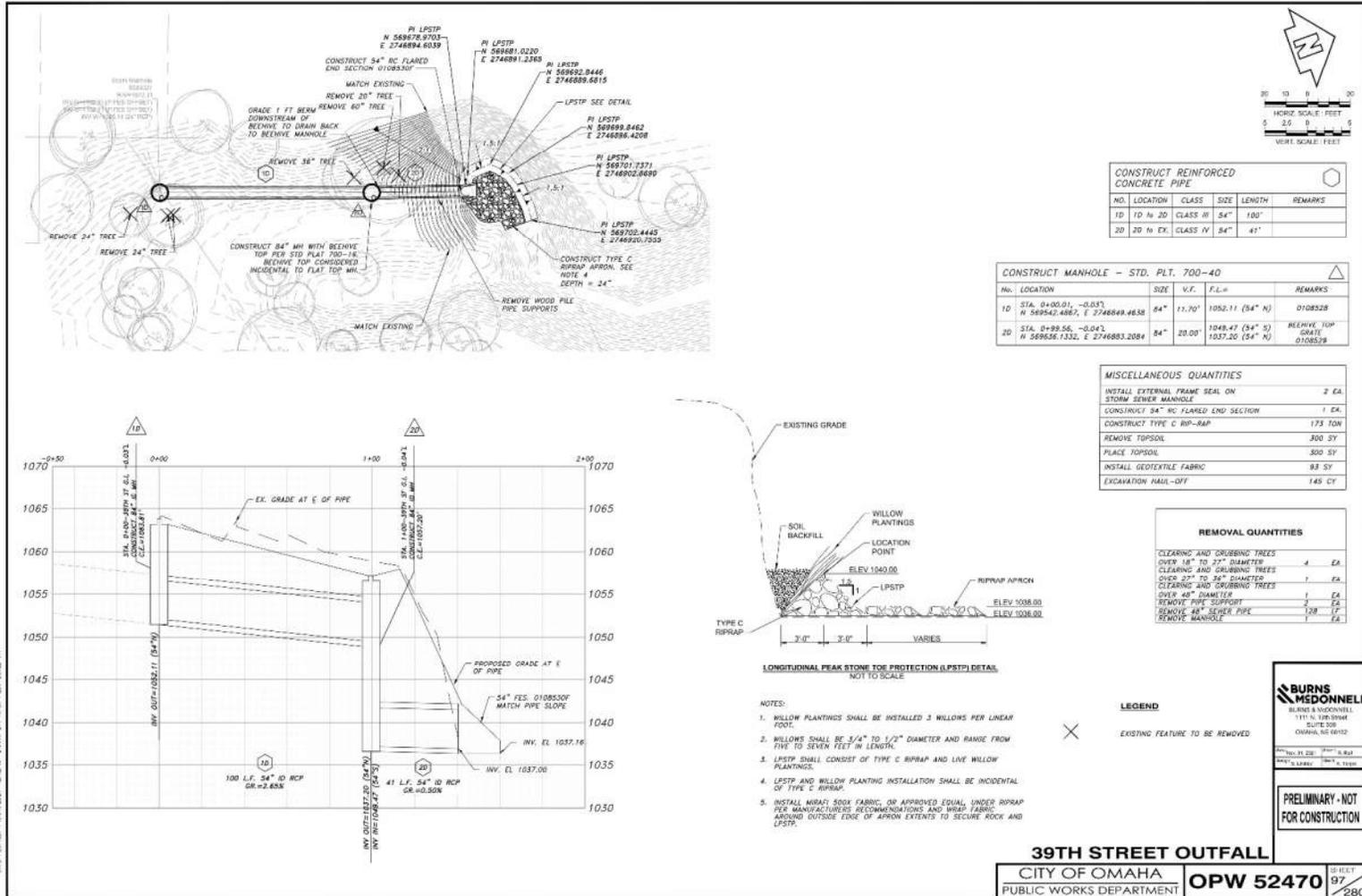
# Minne Lusa Outfall Modifications



# Minne Lusa Outfall Modifications



# 39<sup>th</sup> Street Outfall

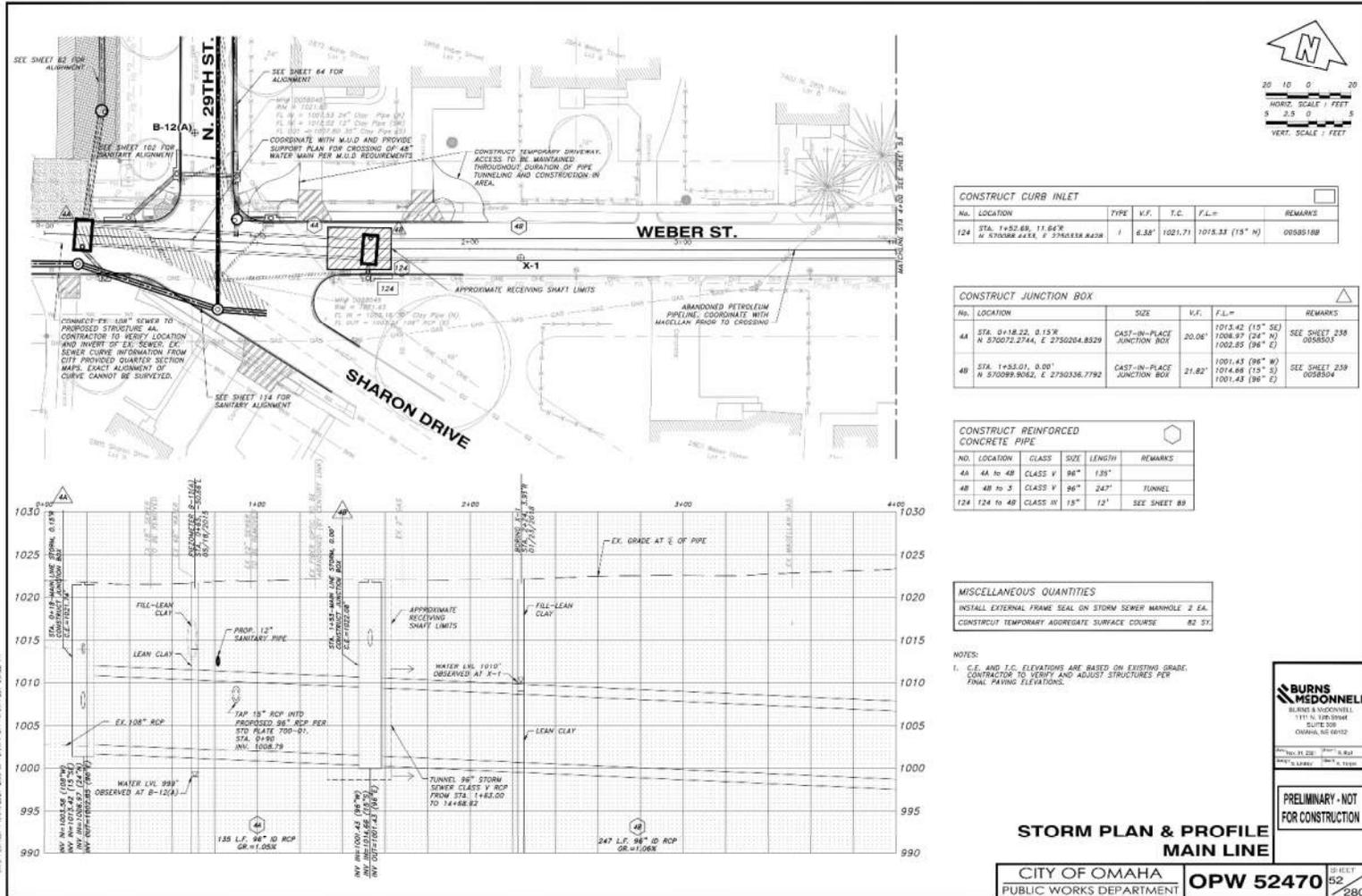


FILE NAME: C:\WORK\OPW\52470\39TH STREET OUTFALL\DWG\39TH STREET OUTFALL\39TH OUTFALL.PLT DATE: 10/21/2010 10:17:23 AM USER: JENNY L. HANSEN PLOT SCALE: 1" = 30'





# 96" Storm Sewer Tunnel



# Sanitary Scope

- Schedule A : Forest Lawn Sewer Separation

- Sanitary Sewer Pipe

- 36" VCP Sanitary Sewer Pipe – 265 LF
    - 36" DIP Sanitary Sewer Pipe – 30 LF
    - 24" VCP Sanitary Sewer Pipe – 3250 LF
    - 24" DIP Sanitary Sewer Pipe – 155 LF
    - 18" VCP Sanitary Sewer Pipe – 10 LF
    - 15" VCP Sanitary Sewer Pipe – 740 LF
    - 15" DIP Sanitary Sewer Pipe – 30 LF
    - 12" VCP Sanitary Sewer Pipe – 1070 LF
    - 12" DIP Sanitary Sewer Pipe – 20 LF
    - 10" VCP Sanitary Sewer Pipe – 40 LF
    - 8" VCP Sanitary Sewer Pipe – 1790 LF
    - 8" DIP Sanitary Sewer Pipe – 45 LF

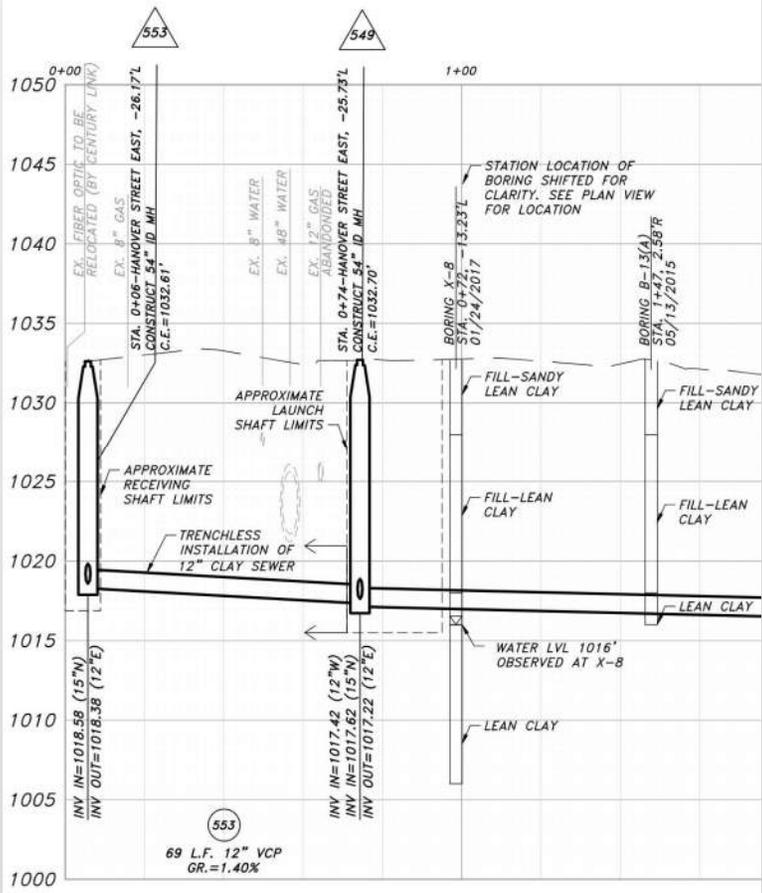
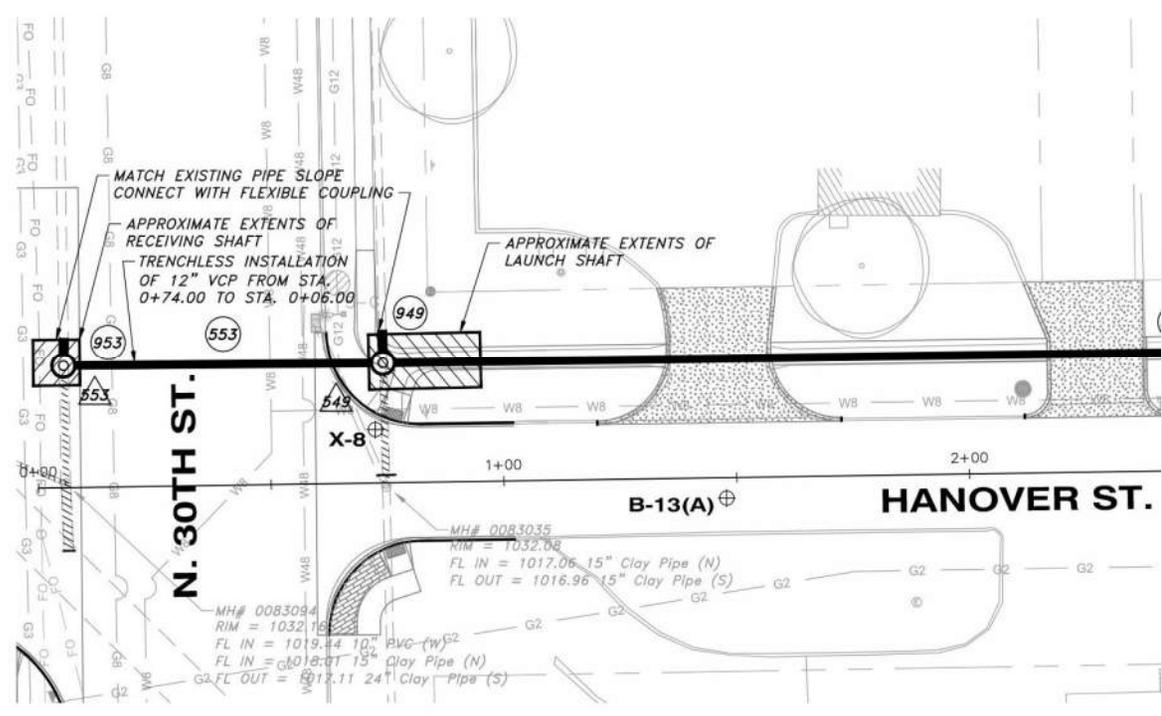
- Sanitary Sewer Structures

- 72" I.D. Sanitary Manhole – 20 VF
    - 60" I.D. Sanitary Manhole – 40 VF
    - 54" I.D. Sanitary Manhole – 460 VF

- Miscellaneous Sanitary

- 24" Sanitary Sewer by Pilot Tube Guided Auger Boring – 70 LF
    - 12" Sanitary Sewer by Pilot Tube Guided Auger Boring – 70 LF

# Sanitary Pilot Tube Guided Auger Boring





# Paving/Restoration Scope

- Schedule A : Forest Lawn Sewer Separation

- Paving

- 11" Concrete Pavement – 2,700 SY
- 7" Concrete Pavement – 35,350 SY
- 6" Concrete Sidewalk – 7200 SF
- 4" Concrete Sidewalk – 32,600 SF
- 10" Concrete Driveway – 900 SY
- 7" Concrete Driveway – 2,300 SY
- 6" Aggregate Surface Course – 1600 SY

- Landscaping

- Seed – Type A – 3 AC
- Sodding – 6,600 SY
- Hydro-Applied Soil Stabilization – 600 SY
- Overstory Deciduous Tree Plant Material 2" Cal – 60 EA
- Understory Deciduous Tree Plant Material 1.5" Cal – 25 EA

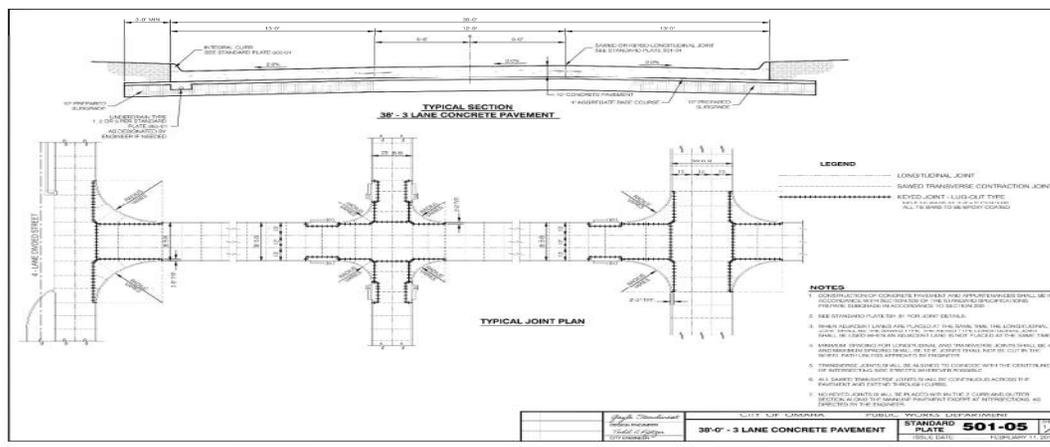
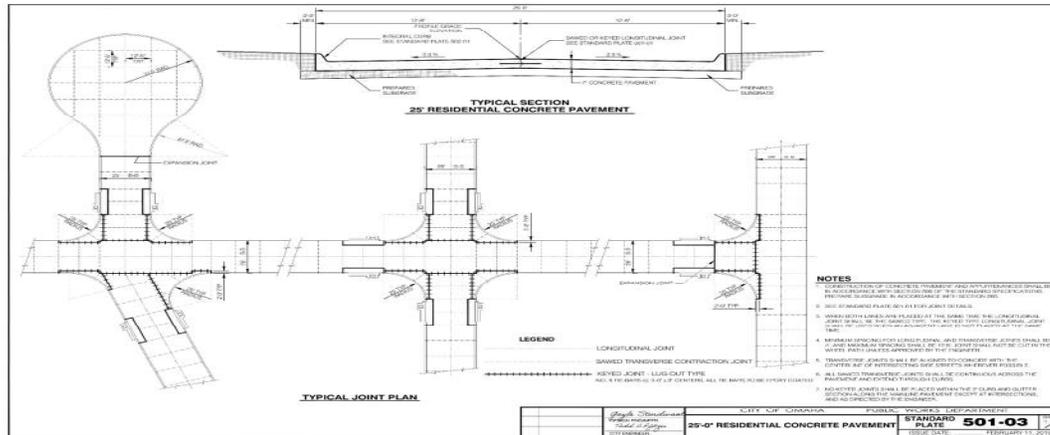
- Schedule B : Wyoming Street Pavement Replacement

- Paving

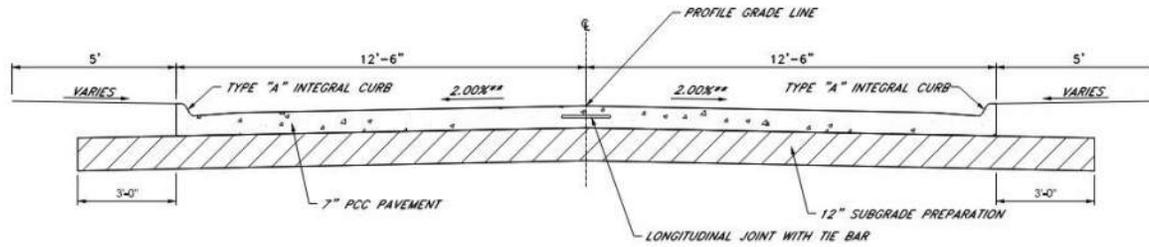
- 7" Concrete Pavement – 3,250 SY
- 4" Concrete Sidewalk – 4,200 SF
- 7" Concrete Driveway – 600 SY

# Paving - Joints

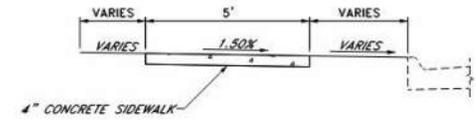
- Jointing per City of Omaha Standard Plates 501-03 & 501-05
- Contractor Responsible for Developing Jointing Plan for Non-Standard Sections



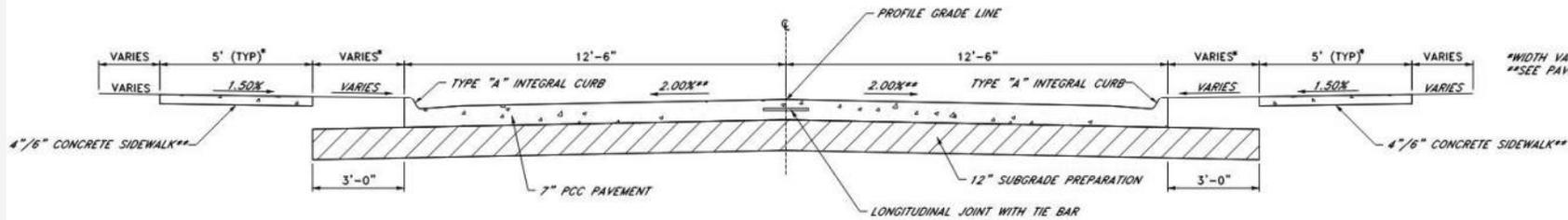
# Paving



**PAVEMENT RECONSTRUCTION TYPICAL SECTION WITHOUT SIDEWALK**

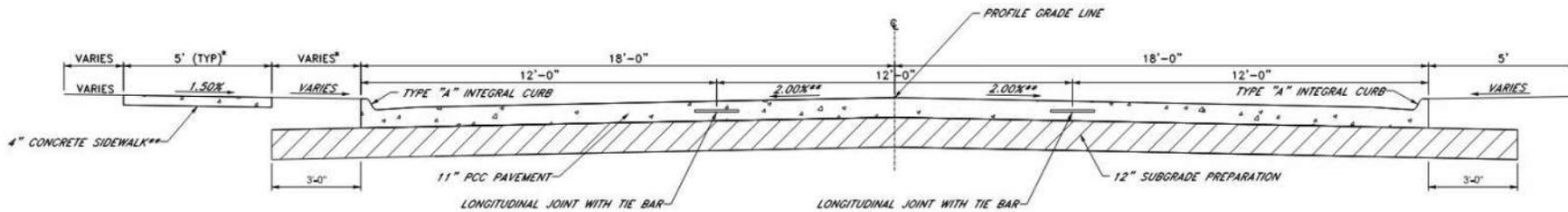


**SIDEWALK RECONSTRUCTION HANOVER ST**



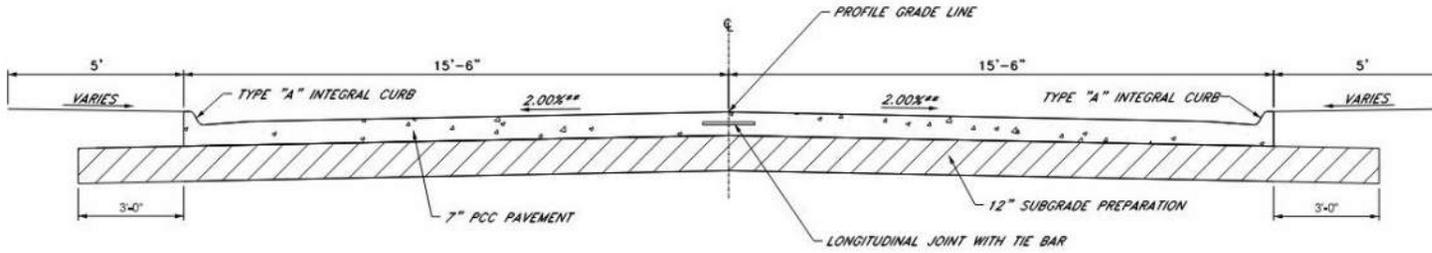
**PAVEMENT RECONSTRUCTION TYPICAL SECTION WITH SIDEWALK**

\*WIDTH VARIES; SEE PAVING PLANS FOR LOCATIONS AND WIDTHS  
\*\*SEE PAVING PLAN AND PROFILE SHEETS FOR DETAILS

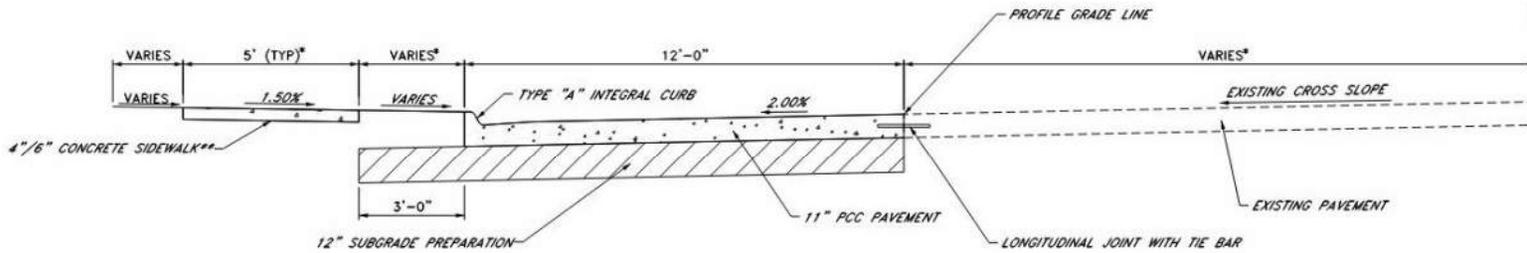


**MINNE LUSA BLVD PAVEMENT RECONSTRUCTION TYPICAL SECTION**

# Paving

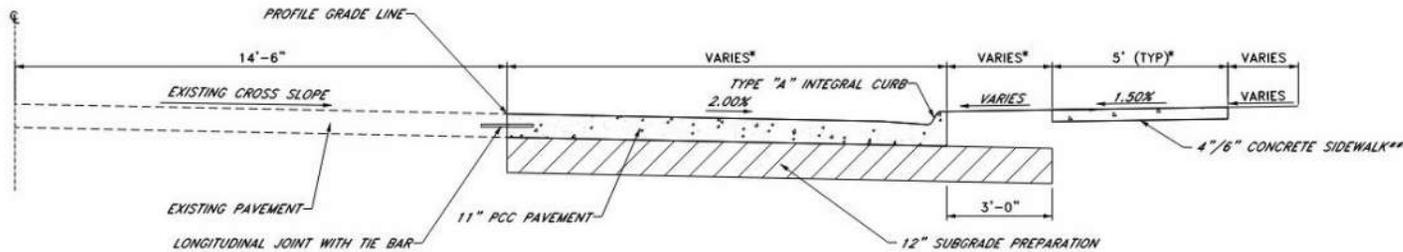


**FLORENCE BLVD PAVEMENT RECONSTRUCTION TYPICAL SECTION**



\*WIDTH VARIES; SEE PAVING PLANS FOR LOCATIONS AND WIDTHS  
\*\*SEE PAVING PLAN AND PROFILE SHEETS FOR DETAILS

**30TH ST LT. PAVEMENT RECONSTRUCTION TYPICAL SECTION**



**30TH ST RT. PAVEMENT RECONSTRUCTION TYPICAL SECTION**

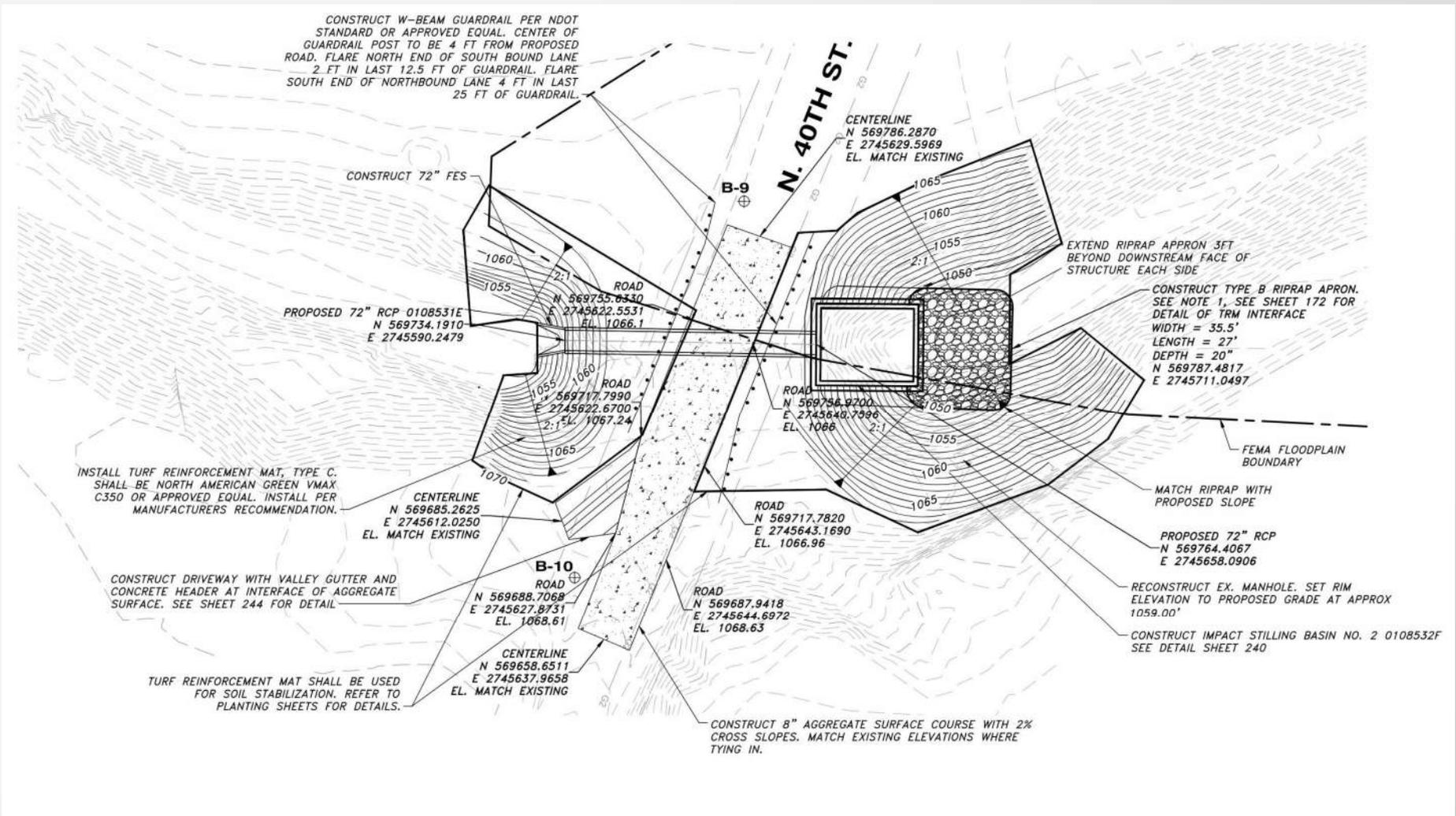
# ADA Ramps

- Constructed at all Intersections with Existing Sidewalk Connections
- City of Omaha Standard Plate 504-01 (1-4)

# 40<sup>th</sup> Street Scope

- Schedule C : 40<sup>th</sup> Street Culvert Replacement
  - Storm Sewer Pipe
    - 72" RCP, D(0.01) = 1,350 – 75 LF
  - Storm Sewer Structures
    - 72" RC Flared End Section w/ Bar Grate – 1 EA
    - Impact Stilling Basin No. 2 – 1 LS
  - Paving
    - 8" Aggregate Surface Course – 275 SY
    - 7" Concrete Driveway – 40 SY
  - Landscaping
    - Rolled Erosion Control, Type II– 100 SY
    - Turf Reinforcement Mat, Type C – 1270 SY
    - Plug Plant Material – Lowland Drainage– 405 EA
  - Miscellaneous
    - Type B Rip-Rap – 154 TON

# 40<sup>th</sup> Street Scope



# Utility Relocations

- Century Link/Lumen
  - Relocations Have Been Performed East of 30<sup>th</sup> Street
  - Coordination with OPPD will be Required Regarding Relocation of any Power Poles that will Affect Century Link – Lumen Aerial Fiber
  - Relocations Anticipated to Conclude Summer 2022
- Unite Private Networks
  - UPN Fiber Line Running Parallel to 30<sup>th</sup> Street on the West Side is Anticipated to be Relocated Prior to Construction
  - Coordination with OPPD will be Required Regarding Relocation of any Power Poles that will Affect UPN Aerial Fiber
- Cox Communications
  - All Cox Fiber Line Relocations Scheduled to be Completed Prior to Construction
- Omaha Public Power District (OPPD)
  - Field Coordination with OPPD will be Required to Determine Whether the Contractor (or OPPD) will be Responsible for Power Pole Bracing and Protection on a Case-by-Case Basis
    - Determination Will be Made by OPPD based on Pole Size and Location

# Utility Relocations

- Magellan Midstream Partners
  - Coordination with Magellan will be Required for Protection/ Support of three lines
    - 30<sup>th</sup> & Weber – Out of Service (To Be Protected)
    - Weber St. East of 29<sup>th</sup> – Out of Service (To Be Protected)
    - West of Minne Lusa Outfall (paralleled to Pershing Drive) – Active
- Verizon
  - Coordination with Verizon will be Required Prior to Crossing Fiber Line West of Minne Lusa Outfall

# Utility Relocations - MUD

- All Water and Gas Lines Shall be Located Prior to Construction
- All Existing 2" and 3" Gas Lines Shall be Coordinated with the Designated MUD Representative. If Required, MUD will Relocate the Gas Line in Coordination with Installation of the Proposed Facilities
  - All other Water and Gas Relocations will be Completed by MUD Prior to Installation of Proposed Facilities
- 36" Water Main Replacement Coordination
  - Minne Lusa Blvd. & Florence Blvd.
  - Coordinate 4 Weeks Prior to Reaching Area

# Right of Way Updates

- Permanent Easements
  - 13 Parcels
- Temporary Easements
  - 17 Parcels
- Anticipated to Have All Easements in Place Prior to Construction

# Permitting

- Owner Obtained
  - NDEE – General (NPDES) Construction Stormwater Discharge Permit
  - NDEE – Construction Permit – Wastewater Works (Plan Review)
  - City of Omaha PW / Papillion Creek Watershed Partnership – Floodplain Use Permit
  - City of Omaha / Papillion Creek Watershed Partnership – Grading and Erosion Control Permit
  - UPRR – Pipeline Crossing / Encroachment Agreement
  - UPRR – Right of Entry Agreement
  - NDOT – Utilities / ROW Occupation Permit
  - NDOT – Access Permit
  - City of Omaha – Floodplain Development Permit

# Permitting

- Contractor Obtained
  - NDEE – General (NPDES) Construction Dewatering Discharge Permit
  - NDEE – General (NPDES) Hydrostatic Testing Water Discharge Permit
  - City of Omaha – Request for Permission to Discharge Construction Dewatering Flows into the City of Omaha’s Sewage System
  - NDNR – Water Well Registration (Dewatering > 90 Days/ Well)
- Misc. Submittals
  - Environmental Protection Plan Submittal (01 35 05 Temporary Environmental Controls)
  - Critical Area Flooding Emergency Action Plan Submittal (01 11 00 Summary Of Work and Coordination)



**Thank You!**

**CSO!**  
Clean Solutions for Omaha